## Trees

1. Given this code for a tree, draw out what it would look like. Additionally, is this a binary search tree?
```
t = { "value" : 20,
    "left" : { "value" : 10,
                "left" : { "value" : 8,
                    "left" : None,
                    "right" : None },
            "right" : { "value" : 15,
            "left" : None,
            "right" : None } },
    "right" : { "value" : 21,
            "left" : None,
            "right" : { "value" : 25,
                "left" : None,
                "right" : None } }}
```

2. What is the runtime of searching through binary search trees (balanced and unbalanced)?
3. Print the values of a binary search tree in nondecreasing order, in $\mathrm{O}(\mathrm{n})$ time. For instance, if you had a binary search tree of the values: $1,2,5,9$, you would want to print " $1 \backslash n 2 \backslash n 5 \backslash n 9 \backslash n "$.
